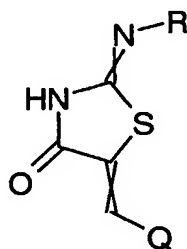


What is claimed is:

1. A method of inhibiting hYAK3 in a mammal; comprising, administering to the mammal a therapeutically effective amount of a compound of the formula I, or a salt, solvate, or a physiologically functional derivative thereof

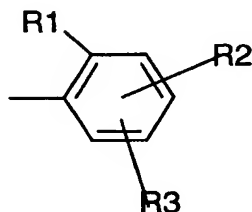


I

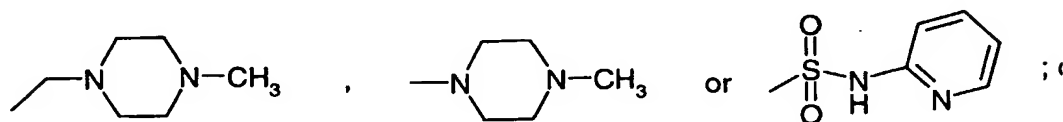
in which

R is C₃₋₆ cycloalkyl or naphthyl; or

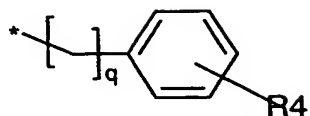
R is



in which R1 is hydrogen, halogen, -C₁₋₆alkyl, -SC₁₋₆alkyl, -OC₁₋₆alkyl, -NO₂, -S(=O)-C₁₋₆alkyl, -OH, -CF₃, -CN, -CO₂H, -OCF₃, or -CO₂C₁₋₆alkyl; and R2 and R3 are independently hydrogen, halogen, -C₁₋₆alkyl, -SC₁₋₆alkyl, -OC₁₋₆alkyl, -NO₂, -S(=O)-C₁₋₆alkyl, -OH, -CF₃, -CN, -CO₂H, -CO₂C₁₋₆alkyl, -CONH₂, -NH₂, -OCH₂(C=O)OH, -OCH₂CH₂OCH₃, -SO₂NH₂, -CH₂SO₂CH₃, -NH(C=NH)CH₃; or R2 and R3 can independently be a radical of the formula



R is

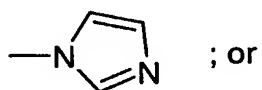


5

in which q is one or two; R4 is hydrogen, halogen, or -SO₂NH₂; or

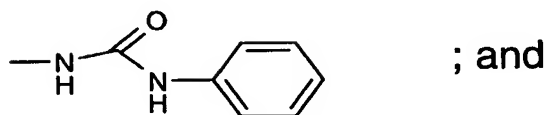
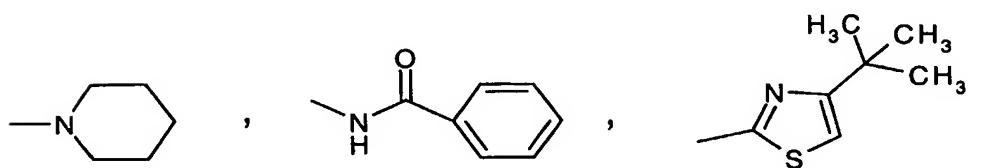
R is -(CH₂)_n-NR^kR^l in which n is 2 or 3, and R^k and R^l are independently -C₁₋₆alkyl; or -NR^kR^l together form

10



15

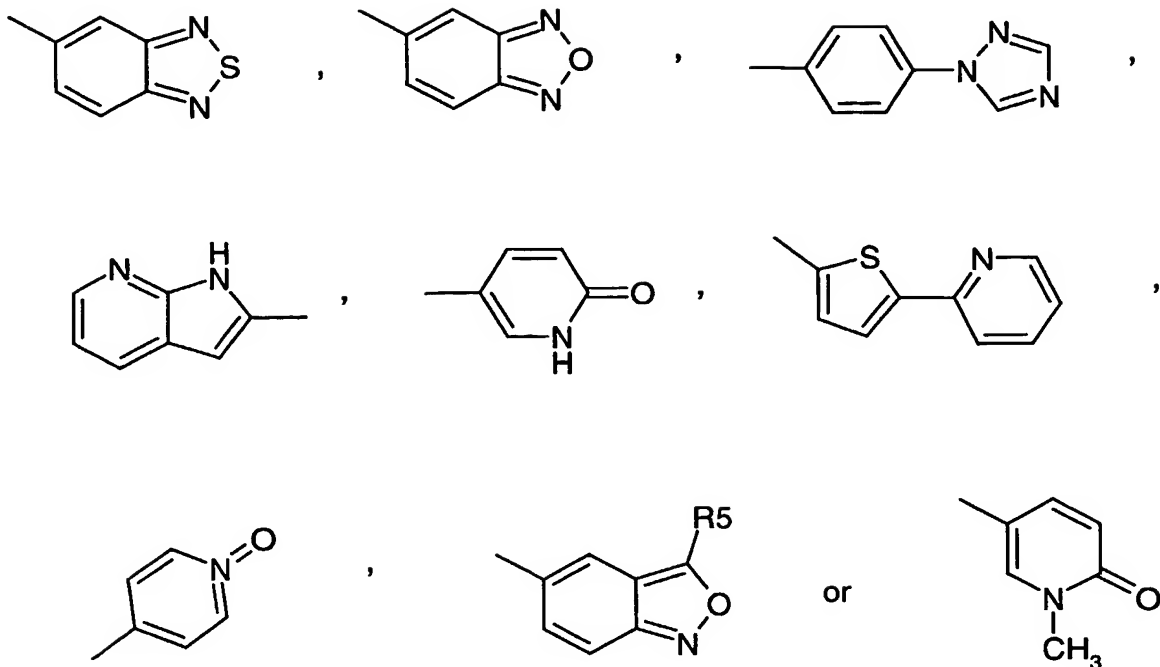
R is



20

25 Q is

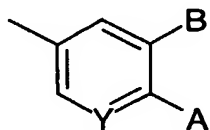
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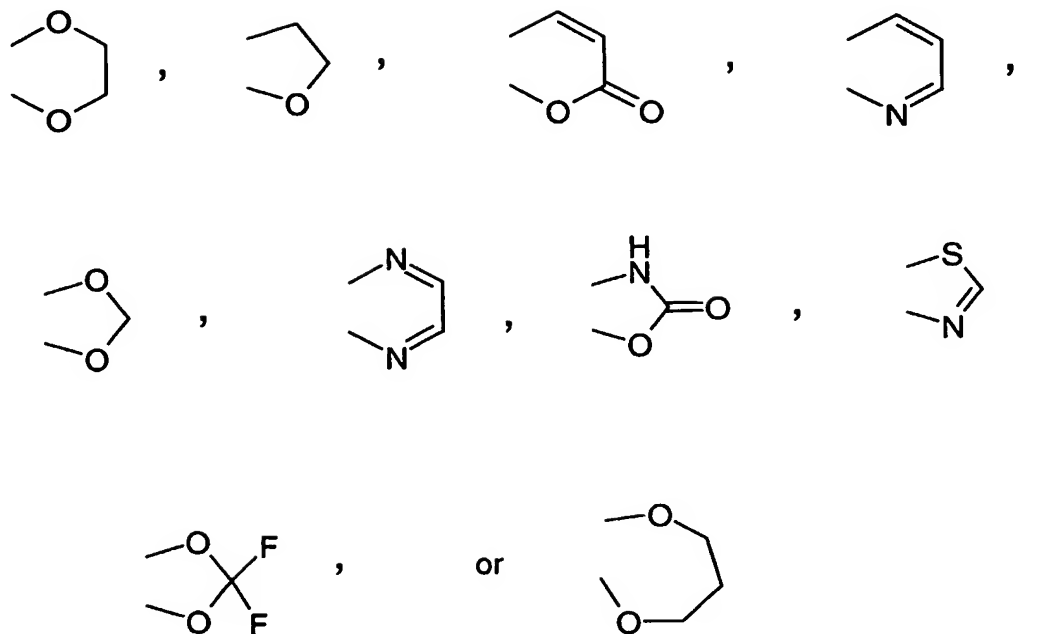
in which R⁵ is hydrogen, phenyl optionally substituted with up to three C₁₋₆ alkyl or halogen, or C₁₋₆ alkyl; or

5

10 Q is

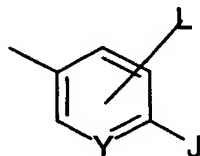


in which Y is CH; and A and B together are a part of



5 provided that ortho position to Y is N or O; or

Q is



10

in which Y is N or CH; J is hydrogen, NH₂, OH or -OC₁₋₆alkyl; and L is hydrogen, NH₂, halogen, -NO₂, or -OC₁₋₆alkyl.

- 15 2. A method of treating or preventing diseases of the erythroid and hematopoietic systems, caused by the hYAK3 imbalance or inappropriate activity; comprising, administering to a mammal a therapeutically effective amount of a compound of claim 1, or a salt, solvate, or a physiologically functional derivative thereof and one or more of pharmaceutically acceptable
- 20 carriers, diluents and excipients.
3. A method of claim 2 in which diseases of the erythroid and hematopoietic systems are selected from the group consisting of: anemia, aplastic anemia, myelodysplastic syndrome, myelosuppression, and cytopenia.
4. A method of treating or preventing diseases selected from the group

consisting of: anemia, aplastic anemia, myelodysplastic syndrome, myelosuppression, and cytopenia; comprising, administering to a mammal a therapeutically effective amount of a compound of claim 1, or a salt, solvate, or a physiologically functional derivative thereof and one or more of pharmaceutically acceptable carriers, diluents and excipients.

5. A method of claims 1, 2, 3, or 4 in which a compound of formula I is selected from the group consisting of:
- 2-(2-Chloro-5-fluoro-phenylimino)-5-(2,3-dihydro-benzo[1-6]dioxin-6-ylmethylene)-thiazolidin-4-one;
 - 2-(2-Chloro-phenylimino)-5-(2-oxo-2H-chromen-6-ylmethylene)-thiazolidin-4-one;
 - 2-(2-Chloro-phenylimino)-5-(2-oxo-2H-chromen-6-ylmethylene)-thiazolidin-4-one;
 - 2-(2-Chloro-phenylimino)-5-(2-oxo-2H-chromen-6-ylmethylene)-thiazolidin-4-one;
 - 5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(2,4,6-trimethyl-phenylimino)-thiazolidin-4-one;
 - 2-Cyclohexylimino-5-(2,3-dihydro-benzo[1-6]dioxin-6-ylmethylene)-thiazolidin-4-one;
 - 2-Cyclohexylimino-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazolidin-4-one;
 - 5-Benzo[1,3]dioxol-5-ylmethylene-2-(chloro-phenylimino)-thiazolidin-4-one;
 - 5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-o-tolylimino-thiazolidin-4-one;
 - 5-(2,3-Dihydro-benzo[1-6]dioxin-6-ylmethylene)-2-o-tolylimino-thiazolidin-4-one;
 - 5-[2-(2-Chloro-phenylimino)-4-oxo-thiazolidin-5-ylidenemethyl]-3H-benzooxazol-2-one;
 - 2-(2-Trifluoromethyl-phenylimino)-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazolidin-4-one;
 - 2-(2-Bromo-phenylimino)-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazolidin-4-one;
 - 2-(2,6-Dichloro-phenylimino)-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazolidin-4-one;
 - 5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(2-methylsulfanyl-phenylimino)-thiazolidin-4-one;
 - 5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(2-fluoro-phenylimino)-thiazolidin-4-one;
 - 2-(2-Methylsulfanyl-phenylimino)-5-(quinolin-6-ylmethylene)-thiazolidin-4-one;

- 2-(2-Bromo-phenylimino)-5-(quinolin-6-ylmethylene)-thiazolidin-4-one;
- 2-(2,3-Dimethyl-phenylimino)-5-(quinolin-6-ylmethylene)-thiazolidin-4-one;
- 5 2-(Naphthalen-1-ylimino)-5-(quinolin-6-ylmethylene)-thiazolidin-4-one;
- 5-(Quinolin-6-ylmethylene)-2-(2-trifluoromethyl-phenylimino)-thiazolidin-4-one;
- 10 2-(2-Chloro-5-trifluoromethyl-phenylimino)-5-(quinolin-6-ylmethylene)-thiazolidin-4-one;
- 2-(2,6-Dichloro-phenylimino)-5-(quinolin-6-ylmethylene)-thiazolidin-4-one;
- 15 2-(2-Bromo-phenylimino)-5-(2,3-dihydro-benzo[1,6]dioxin-6-ylmethylene)-thiazolidin-4-one;
- 5-(Benzo[1,3]dioxol-5-ylmethylene)-2-(2-bromo-phenylimino)-thiazolidin-4-one;
- 20 2-(2-Chloro-phenylimino)-5-(quinoxalin-6-ylmethylene)-thiazolidin-4-one;
- 2-(2,6-Dichloro-phenylimino)-5-(2,3-dihydro-benzo[1,6]dioxin-6-ylmethylene)-thiazolidin-4-one;
- 25 5-(2,3-Dihydro-benzo[1,6]dioxin-6-ylmethylene)-2-(2-nitro-phenylimino)-thiazolidin-4-one;
- 5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(2-nitro-phenylimino)-thiazolidin-4-one;
- 30 2-(2-Chloro-4-fluoro-5-methyl-phenylimino)-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazolidin-4-one;
- 3-Chloro-4-[5-(2,3-dihydro-benzofuran-5-ylmethylene)-4-oxo-thiazolidin-2-ylideneamino]-benzoic acid methyl ester;
- 35 2-(2-Chloro-5-fluoro-phenylimino)-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazolidin-4-one;
- 2-(2-Chloro-4-trifluoromethyl-phenylimino)-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazolidin-4-one;
- 40 2-(4-Bromo-2-chloro-phenylimino)-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazolidin-4-one;
- 45 5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(2-methanesulfinyl-phenylimino)-thiazolidin-4-one;
- 3-Chloro-4-[5-(2,3-dihydro-benzofuran-5-ylmethylene)-4-oxo-thiazolidin-2-ylideneamino]-benzoic acid;
- 50 5-[2-(2-Chloro-phenylimino)-4-oxo-thiazolidin-5-ylidenemethyl]-1H-pyridin-2-one;
- 2-(2-Methylsulfanyl-phenylimino)-5-(quinolin-6-ylmethylene)-thiazolidin-4-one;

- 2-(2-Chloro-4-fluoro-5-methyl-phenylimino)-5-(quinolin-6-ylmethylene)-thiazolidin-4-one;
- 5 2-(2-Chloro-5-fluoro-phenylimino)-5-(quinolin-6-ylmethylene)-thiazolidin-4-one;
- 2-(2-Chloro-5-fluoro-phenylimino)-5-(2,3-dihydro-benzo[1,6]dioxin-6-ylmethylene)-thiazolidin-4-one;
- 10 2-(2-Chloro-4-trifluoromethyl-phenylimino)-5-quinolin-6-ylmethylene-thiazolidin-4-one;
- 5-(Benzothiazol-6-ylmethylene)-2-(2-chloro-phenylimino)-thiazolidin-4-one;
- 15 5-(Benzo[1,2,5]thiadiazol-5-ylmethylene)-2-(2-bromo-phenylimino)-thiazolidin-4-one;
- 5-(Benzo[1,2,5]thiadiazol-5-ylmethylene)-2-(2-chloro-5-fluoro-phenylimino)-thiazolidin-4-one;
- 20 5-(Benzothiazol-6-ylmethylene)-2-(2,6-dichloro-phenylimino)-thiazolidin-4-one;
- 2-(2-Chloro-phenylimino)-5-(4-hydroxy-3-nitro-benzylidene)-thiazolidin-4-one;
- 25 2-(2-Chloro-phenylimino)-5-(4-hydroxy-3-methoxy-benzylidene)-thiazolidin-4-one;
- 2-(2-Chloro-phenylimino)-5-(4-hydroxy-2-methoxy-benzylidene)-thiazolidin-4-one;
- 2-(2-Chloro-phenylimino)-5-(4-hydroxy-benzylidene)-thiazolidin-4-one;
- 30 2-(2-Chloro-phenylimino)-5-(4-methoxy-benzylidene)-thiazolidin-4-one;
- 5-(3-Chloro-4-hydroxy-benzylidene)-2-(2-chloro-phenylimino)-thiazolidin-4-one;
- 2-(2-Chloro-phenylimino)-5-(3-fluoro-4-methoxy-benzylidene)-thiazolidin-4-one;
- 35 2-(2,6-Dichloro-phenylimino)-5-(3-fluoro-4-hydroxy-benzylidene)-thiazolidin-4-one;
- 2-(2-Chloro-phenylimino)-5-(3-fluoro-4-hydroxy-benzylidene)-thiazolidin-4-one;
- 40 2-(2-Chloro-5-fluoro-phenylimino)-5-(3-fluoro-4-hydroxy-benzylidene)-thiazolidin-4-one;
- 5-(3-Fluoro-4-hydroxy-benzylidene)-2-o-tolylimino-thiazolidin-4-one;
- 45 2-(2-Chloro-phenylimino)-5-quinolin-6-ylmethylene-thiazolidin-4-one;
- 5-Quinolin-6-ylmethylene-2-(2,4,6-trimethyl-phenylimino)-thiazolidin-4-one;
- 5-Quinolin-6-ylmethylene-2-o-tolylimino-thiazolidin-4-one;
- 50 2-(2-Methoxy-phenylimino)-5-quinolin-6-ylmethylene-thiazolidin-4-one;
- 5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(2-dimethylamino-ethylamino)-thiazol-4-

one;

Benzoic acid N'-(4-oxo-5-quinolin-6-ylmethylene-4,5-dihydro-thiazol-2-yl)-hydrazide;

2-(2-Dimethylamino-ethylimino)-5-quinolin-6-ylmethylene-thiazolidin-4-one;

5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(piperidin-1-ylamino)-thiazol-4-one;

5 2-Benzylamino-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazol-4-one;

2-(4-tert-Butyl-thiazol-2-ylamino)-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazol-4-one;

4-([5-(2,3-Dihydro-benzofuran-5-ylmethylene)-4-oxo-4,5-dihydro-thiazol-2-ylamino]-methyl)-benzenesulfonamide;

10

5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(3-dimethylamino-propylamino)-thiazol-4-one;

5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(3-imidazol-1-yl-propylamino)-thiazol-4-one;

15 Phenyl-carbamic acid N'-[5-(2,3-dihydro-benzofuran-5-ylmethylene)-4-oxo-4,5-dihydro-thiazol-2-yl]-hydrazide;

Benzoic acid N'-[5-(2,3-dihydro-benzofuran-5-ylmethylene)-4-oxo-4,5-dihydro-thiazol-2-yl]-hydrazide;

20

5-Benzo[1,2,5]thiadiazol-5-ylmethylene-2-(2,3,4-trifluoro-phenylamino)-thiazol-4-one;

5-Benzo[1,2,5]oxadiazol-5-ylmethylene-2-(2-nitro-phenylamino)-thiazol-4-one ;

25 2-(2,6-Dichloro-phenylamino)-5-(4-[1,2,4]triazol-1-yl-benzylidene)-thiazol-4-one;

2-(2,6-Dichloro-phenylamino)-5-(1H-pyrrolo[2,3-b]pyridin-2-ylmethylene)-thiazol-4-one;

30 5-Benzo[1,2,5]thiadiazol-5-ylmethylene-2-(2,6-dichloro-phenylamino)-thiazol-4-one;

5-[2-(2-Methoxy-6-methyl-phenylamino)-4-oxo-4H-thiazol-5-ylidenemethyl]-1H-pyridin-2-one;

35 5-Benzo[1,2,5]thiadiazol-5-ylmethylene-2-(2-nitro-phenylamino)-thiazol-4-one;

2-(2-Bromo-6-fluoro-phenylamino)-5-quinolin-6-ylmethylene-thiazol-4-one;

40 2-(2-Methoxy-6-methyl-phenylamino)-5-quinolin-6-ylmethylene-thiazol-4-one;

5-Quinolin-6-ylmethylene-2-(2,3,4-trifluoro-phenylamino)-thiazol-4-one;

2-(2,6-Dichloro-phenylamino)-5-(2-oxo-2H-chromen-6-ylmethylene)-thiazol-4-one;

- 2-(2-Bromo-phenylamino)-5-(5-pyridin-2-yl-thiophen-2-ylmethylene)-thiazol-4-one;
- 2-(2-Bromo-phenylamino)-5-(1-oxy-pyridin-4-ylmethylene)-thiazol-4-one;
- 5 2-(2-Bromo-phenylamino)-5-(3-p-tolyl-benzo[c]isoxazol-5-ylmethylene)-thiazol-4-one;
- 2-(2-Bromo-phenylamino)-5-(3,4-dihydro-2H-benzo[b][1-6]dioxepin-7-ylmethylene)-thiazol-4-one;
- 10 5-Benzo[1,2,5]oxadiazol-5-ylmethylene-2-(2-bromo-phenylamino)-thiazol-4-one;
- 2-(2,6-Dichloro-phenylamino)-5-(2-methoxy-pyridin-3-ylmethylene)-thiazol-4-one;
- 15 2-(2-Chloro-phenylamino)-5-(6-methoxy-pyridin-3-ylmethylene)-thiazol-4-one;
- 2-(2-Chloro-5-trifluoromethyl-phenylamino)-5-quinolin-6-ylmethylene-thiazol-4-one;
- 2-(2-Bromo-phenylamino)-5-(4-hydroxy-3-methoxy-benzylidene)-thiazol-4-one;
- 20 5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(2-methoxy-phenylamino)-thiazol-4-one;
- 2-(2-Nitro-phenylamino)-5-quinolin-6-ylmethylene-thiazol-4-one;
- 25 2-(2-Bromo-phenylamino)-5-(3,4-diamino-benzylidene)-thiazol-4-one;
- 5-[2-(2-Chloro-phenylimino)-4-oxo-thiazolidin-5-ylidenemethyl]-1-methyl-1H-pyridin-2-one;
- 30 2-(2-Chloro-5-nitro-phenylamino)-5-quinolin-6-ylmethylene-thiazol-4-one;
- 2-(5-Amino-2-chloro-phenylamino)-5-quinolin-6-ylmethylene-thiazol-4-one;
- N-[4-Chloro-3-(4-oxo-5-quinolin-6-ylmethylene-4,5-dihydro-thiazol-2-ylamino)-phenyl]-acetamidine hydrochloride;
- 35 4-[[4-oxo-5-(6-quinolinylmethylidene)-4,5-dihydro-1,3-thiazol-2-yl]amino]benzamide;
- 3-[[4-oxo-5-(6-quinolinylmethylidene)-4,5-dihydro-1,3-thiazol-2-yl]amino]benzenesulfonamide;
- 40 4-[[4-oxo-5-(6-quinolinylmethylidene)-4,5-dihydro-1,3-thiazol-2-yl]amino]-N-2-pyridinylbenzenesulfonamide;
- 45 2-((4-[(4-methyl-1-piperazinyl)methyl]phenyl)amino)-5-(6-quinolinylmethylidene)-1,3-thiazol-4(5H)-one;
- 2-((4-[(methylsulfonyl)methyl]phenyl)amino)-5-(6-quinolinylmethylidene)-1,3-thiazol-4(5H)-one;
- 50 2-((3-[(methylsulfonyl)methyl]phenyl)amino)-5-(6-quinolinylmethylidene)-1,3-thiazol-4(5H)-one;

2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-(6-quinolinylmethylidene)-1,3-thiazol-4(5H)-one;

2-[[2-(3-chlorophenyl)ethyl]amino]-5-(6-quinolinylmethylidene)-1,3-thiazol-4(5H)-one;

4-(2-[[4-oxo-5-(6-quinolinylmethylidene)-4,5-dihydro-1,3-thiazol-2-yl]amino]ethyl)benzenesulfonamide;

3-[[4-oxo-5-(6-quinolinylmethylidene)-4,5-dihydro-1,3-thiazol-2-yl]amino]benzamide;

2-[(2,6-Difluoro-phenylamino)-methylene]-5-quinolin-6-ylmethylene-thiazolidin-4-one;

2-[(2,6-Difluoro-phenylamino)-methylene]-5-quinolin-6-ylmethylene-thiazolidin-4-one;

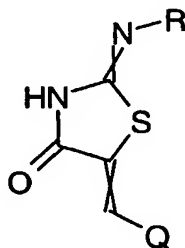
[2,4-Dichloro-5-(4-oxo-5-quinolin-6-ylmethylene-thiazolidin-2-ylideneamino)-phenoxy]-acetic acid;

2-[2,4-Dichloro-5-(2-methoxy-ethoxy)-phenylimino]-5-quinolin-6-ylmethylene-thiazolidin-4-one;

4-Chloro-3-(4-oxo-5-quinolin-6-ylmethylene-thiazolidin-2-ylideneamino)-benzoic acid; and

[2,4-Dichloro-5-(4-oxo-5-quinolin-6-ylmethylene-thiazolidin-2-ylideneamino)-phenoxy]-acetic acid.

6. A compound of the formula II, or a salt, solvate, or a physiologically functional derivative thereof,

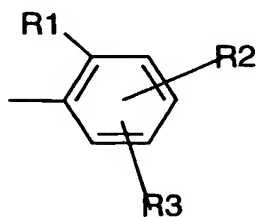


II

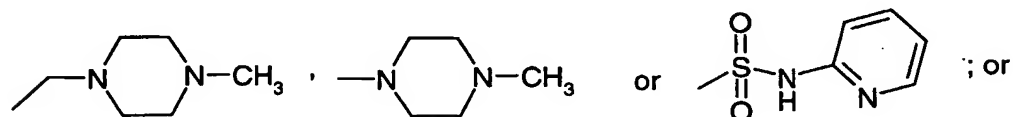
in which

R is C₃₋₆ cycloalkyl or naphthyl; or

5 R is

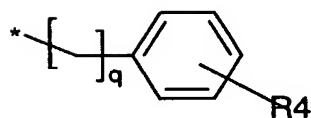


10 in which R1 is hydrogen, halogen, -C₁₋₆alkyl, -SC₁₋₆alkyl, -OC₁₋₆alkyl, -NO₂,
 -S(=O)-C₁₋₆alkyl, -OH, -CF₃, -CN, -CO₂H, -OCF₃, or -CO₂C₁₋₆alkyl;
 and R2 and R3 are independently hydrogen, halogen, -C₁₋₆alkyl,
 -SC₁₋₆alkyl, -OC₁₋₆alkyl, -NO₂, -S(=O)-C₁₋₆alkyl, -OH, -CF₃, -CN, -CO₂H,
 -CO₂C₁₋₆alkyl, -CONH₂, -NH₂, -OCH₂(C=O)OH, -OCH₂CH₂OCH₃, -
 15 SO₂NH₂,
 -CH₂SO₂CH₃, -NH(C=NH)CH₃; or R2 and R3 can independently be a
 radical of the formula



20

R is

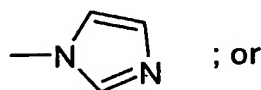


25

in which q is one or two; R4 is hydrogen, halogen, or -SO₂NH₂; or

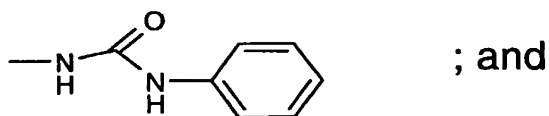
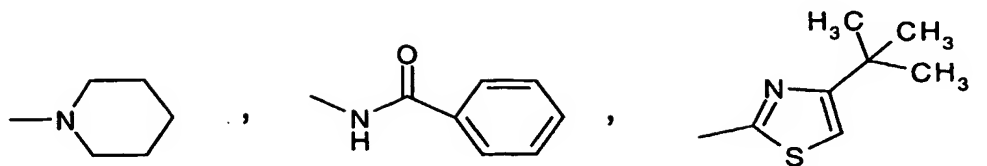
R is -(CH₂)_n-NR^kR^l in which n is 2 or 3, and R^k and R^l are independently
 -C₁₋₆alkyl; or -NR^kR^l together form

30



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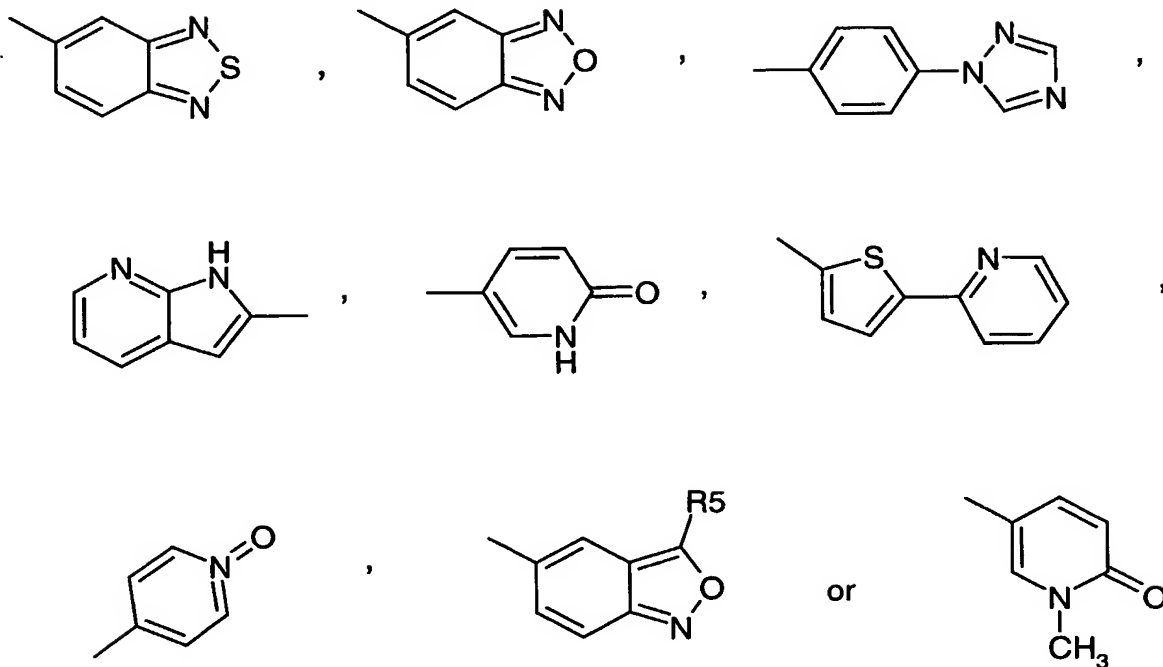
R is



5

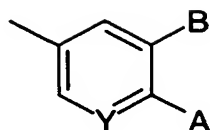
Q is

10

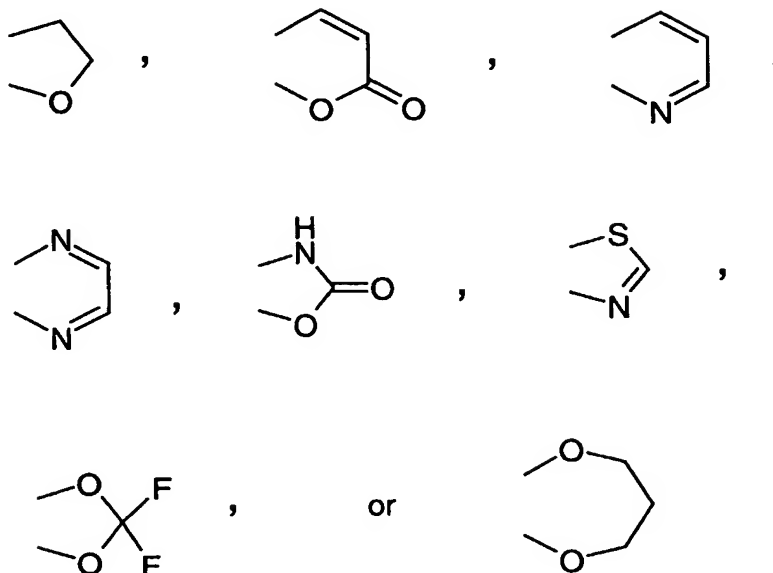


15

Q is



in which Y is CH; and A and B together are a part of



5

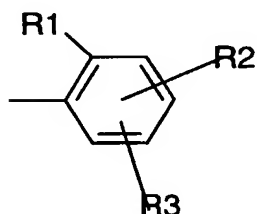
provided that ortho position to Y is N or O.

10

7. A compound of formula II of claim 6 in which

R is C₃₋₆ cycloalkyl or naphthyl; or

15 R is

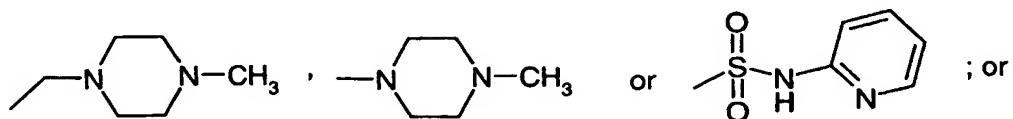


20

in which R1 is hydrogen, halogen, -C₁₋₆alkyl, -SC₁₋₆alkyl, -OC₁₋₆alkyl, -NO₂, -S(=O)-C₁₋₆alkyl, -OH, -CF₃, -CN, -CO₂H, -OCF₃, or -CO₂C₁₋₆alkyl; and R2 and R3 are independently hydrogen, halogen, -C₁₋₆alkyl, -SC₁₋₆alkyl, -OC₁₋₆alkyl, -NO₂, -S(=O)-C₁₋₆alkyl, -OH, -CF₃, -CN, -CO₂H, -CO₂C₁₋₆alkyl, -CONH₂, -NH₂, -OCH₂(C=O)OH, -OCH₂CH₂OCH₃, -SO₂NH₂,

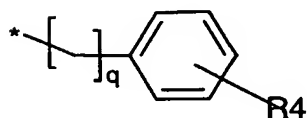
25

-CH₂SO₂CH₃, -NH(C=NH)CH₃; or R₂ and R₃ can independently be a radical of the formula



5

R is



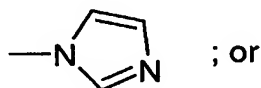
10

in which q is one or two; R₄ is hydrogen, halogen, or -SO₂NH₂; or

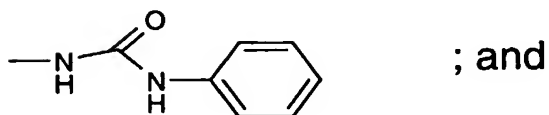
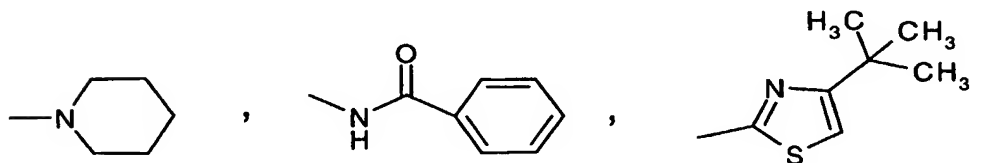
R is

-(CH₂)_n-NR^kR^l in which n is 2 or 3, and R^k and R^l are independently -C₁₋₆alkyl; or -NR^kR^l together form

15

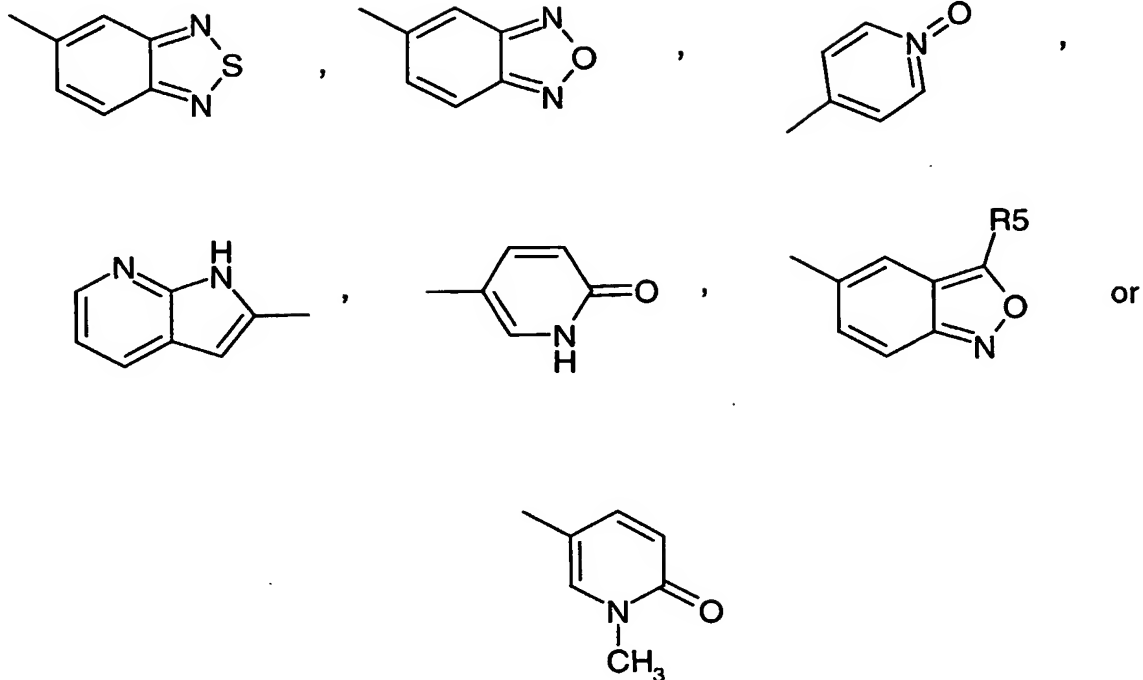


20 R is



25

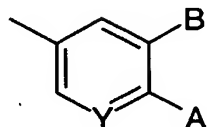
Q is



in which R5 is hydrogen, phenyl optionally substituted with up to three C₁₋₆ alkyl or halogen, or C₁₋₆ alkyl; or

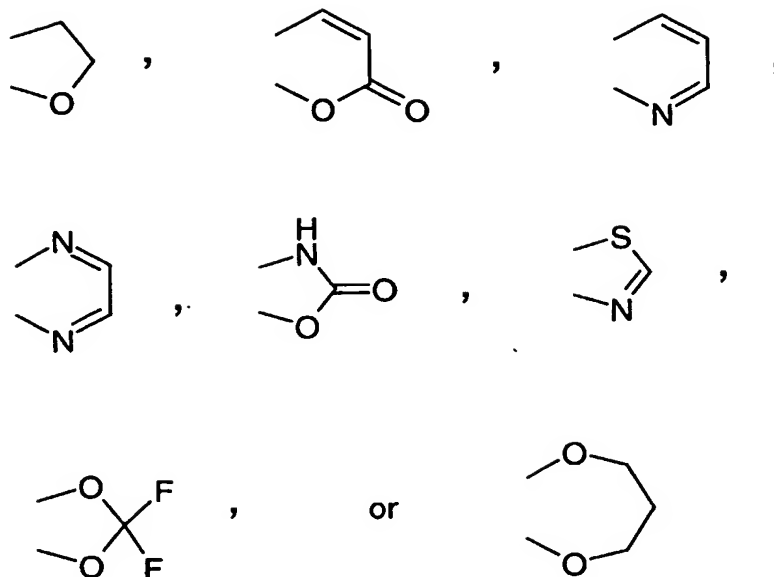
5

Q is



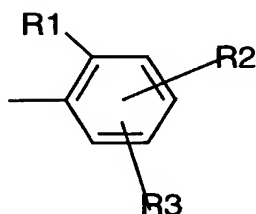
10

in which Y is CH; and A and B together are a part of



5 provided that ortho position to Y is N or O.

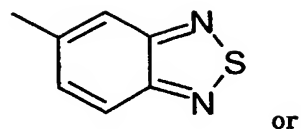
10 8. A compound of formula II of claim 7 in which R is



15 in which R1 is halogen, -C₁₋₆alkyl, -SC₁₋₆alkyl, -OC₁₋₆alkyl, -NO₂,
 -S(=O)-C₁₋₆alkyl, -OH, -CF₃, -CN, -CO₂H, or -CO₂C₁₋₆alkyl;
 and R2 and R3 are independently hydrogen, halogen, -C₁₋₆ alkyl,
 -SC₁₋₆alkyl, -OC₁₋₆alkyl, -NO₂, -S(=O)-C₁₋₆alkyl, -OH, -CF₃, -CN, -CO₂H,
 -CO₂C₁₋₆alkyl, -NH₂, or -NH(C=NH)CH₃;

20 and

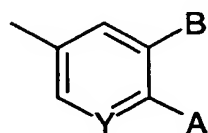
25 Q is



or

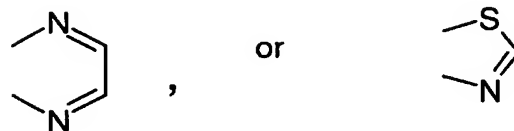
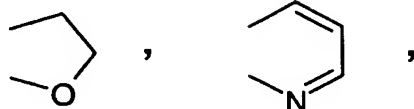
5

Q is



in which Y is CH; and A and B together are a part of

10



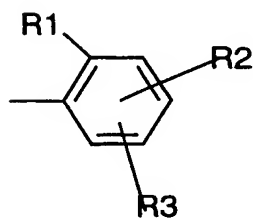
or

15

provided that ortho position to Y is N or O.

9. A compound of formula II of claim 8 in which R is

20



in which R1 is halogen, -C₁₋₆alkyl, -SC₁₋₆alkyl, -OC₁₋₆alkyl, -NO₂, -S(=O)-C₁₋₆alkyl, -OH, -CF₃, -CN, -CO₂H, or -CO₂C₁₋₆alkyl; and R2 and R3 are independently hydrogen, halogen, -C₁₋₆alkyl, -SC₁₋₆alkyl, -OC₁₋₆alkyl, -NO₂, -S(=O)-C₁₋₆alkyl, -OH, -CF₃, -CN, -CO₂H,

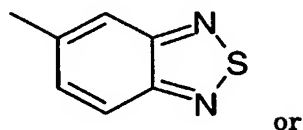
25

-CO₂C₁₋₆alkyl, -NH₂, or -NH(C=NH)CH₃;

and

5

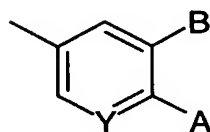
Q is



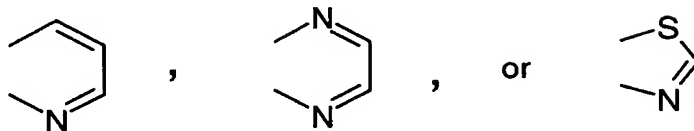
10

Q is

15



in which Y is CH; and A and B together are a part of



20

provided that ortho position to Y is N or O

25

10. A pharmaceutical composition including a therapeutically effective amount of a compound claim 6, 7, 8 or 9, or a salt, solvate, or a physiologically functional derivative thereof and one or more of pharmaceutically acceptable carriers, diluents and excipients.

30

11. A compound selected from the group consisting of:

2-(2-Chloro-5-fluoro-phenylimino)-5-(2,3-dihydro-benzo[1,6]dioxin-6-ylmethylene)-thiazolidin-4-one;

35

2-(2-Chloro-phenylimino)-5-(2-oxo-2H-chromen-6-ylmethylene)-thiazolidin-4-one;

2-(2-Chloro-phenylimino)-5-(2-oxo-2H-chromen-6-ylmethylene)-thiazolidin-4-one;

- 2-(2-Chloro-phenylimino)-5-(2-oxo-2H-chromen-6-ylmethylene)-thiazolidin-4-one;
- 5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(2,4,6-trimethyl-phenylimino)-thiazolidin-4-one;
- 5 2-Cyclohexylimino-5-(2,3-dihydro-benzo[1-6]dioxin-6-ylmethylene)-thiazolidin-4-one;
- 2-Cyclohexylimino-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazolidin-4-one;
- 10 5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-o-tolylimino-thiazolidin-4-one;
- 5-(2,3-Dihydro-benzo[1-6]dioxin-6-ylmethylene)-2-o-tolylimino-thiazolidin-4-one;
- 15 5-[2-(2-Chloro-phenylimino)-4-oxo-thiazolidin-5-ylidenemethyl]-3H-benzooxazol-2-one;
- 2-(2-Trifluoromethyl-phenylimino)-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazolidin-4-one;
- 20 2-(2-Bromo-phenylimino)-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazolidin-4-one;
- 2-(2,6-Dichloro-phenylimino)-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazolidin-4-one;
- 25 5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(2-methylsulfanyl-phenylimino)-thiazolidin-4-one;
- 5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(2-fluoro-phenylimino)-thiazolidin-4-one;
- 2-(2-Methylsulfanyl-phenylimino)-5-(quinolin-6-ylmethylene)-thiazolidin-4-one;
- 30 2-(2-Bromo-phenylimino)-5-(quinolin-6-ylmethylene)-thiazolidin-4-one;
- 2-(2,3-Dimethyl-phenylimino)-5-(quinolin-6-ylmethylene)-thiazolidin-4-one;
- 35 2-(Naphthalen-1-ylimino)-5-(quinolin-6-ylmethylene)-thiazolidin-4-one;
- 5-(Quinolin-6-ylmethylene)-2-(2-trifluoromethyl-phenylimino)-thiazolidin-4-one;
- 2-(2-Chloro-5-trifluoromethyl-phenylimino)-5-(quinolin-6-ylmethylene)-thiazolidin-4-one;
- 40 2-(2,6-Dichloro-phenylimino)-5-8quinolin-6-ylmethylene)-thiazolidin-4-one;
- 2-(2-Bromo-phenylimino)-5-(2,3-dihydro-benzo[1-6]dioxin-6-ylmethylene) -thiazolidin-4-one;
- 45 2-(2-Chloro-phenylimino)-5-(quinoxalin-6-ylmethylene)-thiazolidin-4-one;
- 2-(2,6-Dichloro-phenylimino)-5-(2,3-dihydro-benzo[1-6]dioxin-6-ylmethylene)-thiazolidin-4-one;
- 50 5-(2,3-Dihydro-benzo[1-6]dioxin-6-ylmethylene)-2-(2-nitro-phenylimino) -thiazolidin-4-one;

- 5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(2-nitro-phenylimino)-thiazolidin-4-one;
- 5 2-(2-Chloro-4-fluoro-5-methyl-phenylimino)-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazolidin-4-one;
- 3-Chloro-4-[5-(2,3-dihydro-benzofuran-5-ylmethylene)-4-oxo-thiazolidin-2-ylideneamino]-benzoic acid methyl ester;
- 10 2-(2-Chloro-5-fluoro-phenylimino)-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazolidin-4-one;
- 2-(2-Chloro-4-trifluoromethyl-phenylimino)-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazolidin-4-one;
- 15 2-(4-Bromo-2-chloro-phenylimino)-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazolidin-4-one;
- 5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(2-methanesulfinyl-phenylimino)-thiazolidin-4-one;
- 20 3-Chloro-4-[5-(2,3-dihydro-benzofuran-5-ylmethylene)-4-oxo-thiazolidin-2-ylideneamino]-benzoic acid;
- 25 5-[2-(2-Chloro-phenylimino)-4-oxo-thiazolidin-5-ylidenemethyl]-1H-pyridin-2-one;
- 2-(2-Methylsulfonyl-phenylimino)-5-(quinolin-6-ylmethylene)-thiazolidin-4-one;
- 2-(2-Chloro-4-fluoro-5-methyl-phenylimino)-5-(quinolin-6-ylmethylene)-thiazolidin-4-one;
- 30 2-(2-Chloro-5-fluoro-phenylimino)-5-(quinolin-6-ylmethylene)-thiazolidin-4-one;
- 2-(2-Chloro-5-fluoro-phenylimino)-5-(2,3-dihydro-benzo[1,6]dioxin-6-ylmethylene)-thiazolidin-4-one;
- 35 2-(2-Chloro-4-trifluoromethyl-phenylimino)-5-quinolin-6-ylmethylene-thiazolidin-4-one;
- 40 5-(Benzothiazol-6-ylmethylene)-2-(2-chloro-phenylimino)-thiazolidin-4-one;
- 5-(Benzo[1,2,5]thiadiazol-5-ylmethylene)-2-(2-bromo-phenylimino)-thiazolidin-4-one;
- 5-(Benzo[1,2,5]thiadiazol-5-ylmethylene)-2-(2-chloro-5-fluoro-phenylimino)-thiazolidin-4-one;
- 45 5-(Benzothiazol-6-ylmethylene)-2-(2,6-dichloro-phenylimino)-thiazolidin-4-one;
- 2-(2-Chloro-phenylimino)-5-(4-hydroxy-3-nitro-benzylidene)-thiazolidin-4-one;
- 50 2-(2-Chloro-phenylimino)-5-(4-hydroxy-3-methoxy-benzylidene)-thiazolidin-4-one;

- 2-(2-Chloro-phenylimino)-5-(4-hydroxy-benzylidene)-thiazolidin-4-one;
- 2-(2-Chloro-phenylimino)-5-(4-methoxy-benzylidene)-thiazolidin-4-one;
- 5 5-(3-Chloro-4-hydroxy-benzylidene)-2-(2-chloro-phenylimino)-thiazolidin-4-one;
- 2-(2-Chloro-phenylimino)-5-(3-fluoro-4-methoxy-benzylidene)-thiazolidin-4-one;
- 2-(2,6-Dichloro-phenylimino)-5-(3-fluoro-4-hydroxy-benzylidene)-thiazolidin-4-one;
- 10 2-(2-Chloro-phenylimino)-5-(3-fluoro-4-hydroxy-benzylidene)-thiazolidin-4-one;
- 2-(2-Chloro-5-fluoro-phenylimino)-5-(3-fluoro-4-hydroxy-benzylidene)-thiazolidin-4-one;
- 15 5-(3-Fluoro-4-hydroxy-benzylidene)-2-o-tolylimino-thiazolidin-4-one;
- 2-(2-Chloro-phenylimino)-5-quinolin-6-ylmethylene-thiazolidin-4-one;
- 20 5-Quinolin-6-ylmethylene-2-(2,4,6-trimethyl-phenylimino)-thiazolidin-4-one;
- 5-Quinolin-6-ylmethylene-2-o-tolylimino-thiazolidin-4-one;
- 2-(2-Methoxy-phenylimino)-5-quinolin-6-ylmethylene-thiazolidin-4-one;
- 5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(2-dimethylamino-ethylamino)-thiazol-4-
- 25 one;
- Benzoic acid N'-(4-oxo-5-quinolin-6-ylmethylene-4,5-dihydro-thiazol-2-yl)-hydrazide;
- 2-(2-Dimethylamino-ethylimino)-5-quinolin-6-ylmethylene-thiazolidin-4-one;
- 30 5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(piperidin-1-ylamino)-thiazol-4-one;
- 2-Benzylamino-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazol-4-one;
- 2-(4-tert-Butyl-thiazol-2-ylamino)-5-(2,3-dihydro-benzofuran-5-ylmethylene)-thiazol-4-
- 35 one;
- 4-[[5-(2,3-Dihydro-benzofuran-5-ylmethylene)-4-oxo-4,5-dihydro-thiazol-2-ylamino]-methyl]-benzenesulfonamide;
- 40 5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(3-dimethylamino-propylamino)-thiazol-4-one;
- 5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(3-imidazol-1-yl-propylamino)-thiazol-4-one;

Phenyl-carbamic acid N'-[5-(2,3-dihydro-benzofuran-5-ylmethylene)-4-oxo-4,5-dihydro-thiazol-2-yl]-hydrazide;

5 Benzoic acid N'-[5-(2,3-dihydro-benzofuran-5-ylmethylene)-4-oxo-4,5-dihydro-thiazol-2-yl]-hydrazide;

5-Benzo[1,2,5]thiadiazol-5-ylmethylene-2-(2,3,4-trifluoro-phenylamino)-thiazol-4-one;

10 5-Benzo[1,2,5]oxadiazol-5-ylmethylene-2-(2-nitro-phenylamino)-thiazol-4-one ;

2-(2,6-Dichloro-phenylamino)-5-(4-[1,2,4]triazol-1-yl-benzylidene)-thiazol-4-one;

2-(2,6-Dichloro-phenylamino)-5-(1H-pyrrolo[2,3-b]pyridin-2-ylmethylene)-thiazol-4-one;

15 5-Benzo[1,2,5]thiadiazol-5-ylmethylene-2-(2,6-dichloro-phenylamino)-thiazol-4-one;

5-[2-(2-Methoxy-6-methyl-phenylamino)-4-oxo-4H-thiazol-5-ylidenemethyl]-1H-pyridin-2-one;

20 5-Benzo[1,2,5]thiadiazol-5-ylmethylene-2-(2-nitro-phenylamino)-thiazol-4-one;

25 2-(2-Bromo-6-fluoro-phenylamino)-5-quinolin-6-ylmethylene-thiazol-4-one;

2-(2-Methoxy-6-methyl-phenylamino)-5-quinolin-6-ylmethylene-thiazol-4-one;

5-Quinolin-6-ylmethylene-2-(2,3,4-trifluoro-phenylamino)-thiazol-4-one;

30 2-(2,6-Dichloro-phenylamino)-5-(2-oxo-2H-chromen-6-ylmethylene)-thiazol-4-one;

2-(2-Bromo-phenylamino)-5-(5-pyridin-2-yl-thiophen-2-ylmethylene)-thiazol-4-one;

35 2-(2-Bromo-phenylamino)-5-(1-oxy-pyridin-4-ylmethylene)-thiazol-4-one;

2-(2-Bromo-phenylamino)-5-(3-p-tolyl-benzo[c]isoxazol-5-ylmethylene)-thiazol-4-one;

2-(2-Bromo-phenylamino)-5-(3,4-dihydro-2H-benzo[b][1,6]dioxepin-7-ylmethylene)-thiazol-4-one;

40 5-Benzo[1,2,5]oxadiazol-5-ylmethylene-2-(2-bromo-phenylamino)-thiazol-4-one;

2-(2,6-Dichloro-phenylamino)-5-(2-methoxy-pyridin-3-ylmethylene)-thiazol-4-one;

45 2-(2-Chloro-phenylamino)-5-(6-methoxy-pyridin-3-ylmethylene)-thiazol-4-one;

2-(2-Chloro-5-trifluoromethyl-phenylamino)-5-quinolin-6-ylmethylene-thiazol-4-one;

2-(2-Bromo-phenylamino)-5-(4-hydroxy-3-methoxy-benzylidene)-thiazol-4-one;

50 5-(2,3-Dihydro-benzofuran-5-ylmethylene)-2-(2-methoxy-phenylamino)-thiazol-4-one;

- 2-(2-Nitro-phenylamino)-5-quinolin-6-ylmethylene-thiazol-4-one;
- 2-(2-Bromo-phenylamino)-5-(3,4-diamino-benzylidene)-thiazol-4-one;
- 5 5-[2-(2-Chloro-phenylimino)-4-oxo-thiazolidin-5-ylidenemethyl]-1-methyl-1H-pyridin-2-one;
- 2-(2-Chloro-5-nitro-phenylamino)-5-quinolin-6-ylmethylene-thiazol-4-one;
- 10 2-(5-Amino-2-chloro-phenylamino)-5-quinolin-6-ylmethylene-thiazol-4-one;
- N-[4-Chloro-3-(4-oxo-5-quinolin-6-ylmethylene-4,5-dihydro-thiazol-2-ylamino)-phenyl]-acetamidine hydrochloride;
- 15 4-[[4-oxo-5-(6-quinolinylmethylidene)-4,5-dihydro-1,3-thiazol-2-yl]amino]benzamide;
- 3-[[4-oxo-5-(6-quinolinylmethylidene)-4,5-dihydro-1,3-thiazol-2-yl]amino]benzenesulfonamide;
- 20 4-[[4-oxo-5-(6-quinolinylmethylidene)-4,5-dihydro-1,3-thiazol-2-yl]amino]-N-2-pyridinylbenzenesulfonamide;
- 25 2-([4-[(4-methyl-1-piperazinyl)methyl]phenyl]amino)-5-(6-quinolinylmethylidene)-1,3-thiazol-4(5H)-one;
- 2-([4-[(methylsulfonyl)methyl]phenyl]amino)-5-(6-quinolinylmethylidene)-1,3-thiazol-4(5H)-one;
- 30 2-([3-[(methylsulfonyl)methyl]phenyl]amino)-5-(6-quinolinylmethylidene)-1,3-thiazol-4(5H)-one;
- 2-([4-(4-methyl-1-piperazinyl)phenyl]amino)-5-(6-quinolinylmethylidene)-1,3-thiazol-4(5H)-one;
- 35 2-([2-(3-chlorophenyl)ethyl]amino)-5-(6-quinolinylmethylidene)-1,3-thiazol-4(5H)-one;
- 4-([2-([4-oxo-5-(6-quinolinylmethylidene)-4,5-dihydro-1,3-thiazol-2-yl]amino)ethyl]benzenesulfonamide);
- 40 3-([4-oxo-5-(6-quinolinylmethylidene)-4,5-dihydro-1,3-thiazol-2-yl]amino)benzamide;
- 2-[(2,6-Difluoro-phenylamino)-methylene]-5-quinolin-6-ylmethylene-thiazolidin-4-one;
- 45 2-[(2,6-Difluoro-phenylamino)-methylene]-5-quinolin-6-ylmethylene-thiazolidin-4-one;
- [2,4-Dichloro-5-(4-oxo-5-quinolin-6-ylmethylene-thiazolidin-2-ylideneamino)-phenoxy]-acetic acid;
- 50 2-[2,4-Dichloro-5-(2-methoxy-ethoxy)-phenylimino]-5-quinolin-6-ylmethylene-thiazolidin-4-one;

4-Chloro-3-(4-oxo-5-quinolin-6-ylmethylene-thiazolidin-2-ylideneamino)-benzoic acid;
and

- 5 [2,4-Dichloro-5-(4-oxo-5-quinolin-6-ylmethylene-thiazolidin-2-ylideneamino)-phenoxy]-
acetic acid.